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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/671,518	09/	29/2003	Yoshihisa Suda	053466-0369	9110	
22428	7590	11/03/2005		EXAM	EXAMINER	
FOLEY ANI SUITE 500	D LARDN	IER LLP		DUNWIDDIE,	DUNWIDDIE, MEGHAN K	
3000 K STRE	ET NW		ART UNIT	PAPER NUMBER		
WASHINGTO	ON, DC 2	20007	2875			

DATE MAILED: 11/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

				X				
		Application No.	Applicant(s)	- 77				
		10/671,518	SUDA ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Meghan K. Dunwiddie	2875	<u>-</u>				
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with	the correspondence address					
WHI(- Exte after - If NO - Failt Any	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DV in solven from the mailing date of this communication. Solven for reply is specified above, the maximum statutory period or reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICA 36(a). In no event, however, may a rep will apply and will expire SIX (6) MONTH , cause the application to become ABA	ATION. ly be timely filed IS from the mailing date of this communication NDONED (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on 11 O	<u>ctober 2005</u> .						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.							
3)[• •			is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠	Claim(s) <u>1-4</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5)	Claim(s) is/are allowed.							
·	Claim(s) <u>1-4</u> is/are rejected.							
• —	Claim(s) 2 is/are objected to.	r alaction requirement						
ا_ا(ه	Claim(s) are subject to restriction and/o	r election requirement.						
Applicat	ion Papers							
•	The specification is objected to by the Examine							
10)[_	The drawing(s) filed on is/are: a) acc							
	Applicant may not request that any objection to the							
400	Replacement drawing sheet(s) including the correct			(d).				
11)	The oath or declaration is objected to by the Ex	kaminer. Note the attached	Office Action of John P10-132.					
Priority	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)) All b) Some * c) None of:							
	1. Certified copies of the priority document			,				
	2. Certified copies of the priority document							
	3. Copies of the certified copies of the prio		eceived in this National Stage					
	application from the International Burea See the attached detailed Office action for a list		eceived					
	e the attached detailed Office action for a list	of the definited depices not in	3001704.					
Attachme	nt(s)							
	ce of References Cited (PTO-892)	4) Interview Su						
	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		/Mail Date ormal Patent Application (PTO-152)					
	er No(s)/Mail Date	6) Other:						

DETAILED ACTION

This Office Action is a Non-Final Rejection in response to the amendment filed on October 11, 2005 by **Suda** et al.

Response to Arguments

1. Applicant's arguments, see page 3, filed October 11, 2005, with respect to the rejection(s) of claim(s) 1-4 under **Runfola** et al. (US 6601983) and **Konishi** et al. (US 2002/0096984) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Warhus, Jr. et al. (US 1925423) and **Konishi** et al. (US 2002/0096984).

Claim Objections

2. Claim 2 is objected to because of the following informalities: the term "heating" is misspelled in line 2 of the claim. Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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4. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Warhus, Jr.** et al. (US 1925423) in view of **Konishi** et al. (US 2002/0096984).

- 5. Regarding claim 1, **Warhus, Jr.** et al. shows a vehicle lamp [See Figure 2] comprising:
 - A lamp body for holding therein a light source [See Figure 2];
 - A lens [Figure 2: (7)] mounted on the front of said lamp body [See Figure 2];
 - And a heating element [Figure 5: (16)] mounted within said lamp body and apart
 from said light source and said lens [See Figures 4 and 5], wherein heat rays
 radiated from said heating element [Figure 5: (16)] irradiate a rear surface of said
 lens [Figure 5: (7')].
- 6. Warhus, Jr. et al. does not show:
 - A carbon-based heating element.
- 7. **Konishi** et al. teaches:
 - A carbon-based heating element [Figure 1: (1)].
- 8. It would have been obvious for one of ordinary skill in the art, at the time of the invention to use the carbon-based heating element as taught by **Konishi** et al. within the lamp body of **Warhus**, **Jr**. et al. for the purpose and advantage of providing a means of heating the lens of the lamp body.

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9. Regarding claim 2, Warhus, Jr. et al. shows:

- A heating element [Figure 5: (16)].
- 10. Warhus, Jr. et al. does not show:
 - A glass tube for sealing therein said carbon-based heating element.
- 11. Konishi et al. teaches:
 - A glass tube [Figure 1: (2)] for sealing therein said carbon-based heating element [Figure 1: (1)].
- 12. It would have been obvious for one of ordinary skill in the art, at the time of the invention to seal the heating element of **Warhus**, **Jr.** et al. within a glass tube of **Konishi** et al. for the purpose and advantage of protecting the heating element from hanging down or oxidation at high temperatures.
- 13. Regarding claim 3, **Warhus, Jr.** et al. shows:
 - A heating element [Figure 5: (16)].
- 14. Warhus, Jr. et al. does not show:
 - Said carbon-based heating element contains amorphous carbon and carbon powder dispersed in said amorphous carbon.

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15. Konishi et al. teaches:

• Said carbon-based heating element [Figure 1: (1)] contains amorphous carbon

and carbon powder dispersed in said amorphous carbon [See page 4 paragraph

[0042] lines 2-6].

16. It would have been obvious for one of ordinary skill in the art, at the time of the

invention to utilize amorphous carbon as taught in Konishi et al. within the heating

element of Warhus, Jr. et al. for the purpose and advantage of constructing an element

closely comparable to pure carbon material and resulting in high radiation efficiency.

17. Regarding claim 4, Warhus, Jr. et al. shows:

A heating element [Figure 5: (16)].

18. Warhus, Jr. et al. does not show:

Said carbon-based heating element further contains a metal or metalloid

compound.

19. **Konishi** et al. teaches:

Said carbon-based heating element [Figure 1: (1)] further contains a metal or

metalloid compound [See page 1 paragraph [0005] lines 3-7].

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It would have been obvious for one of ordinary skill in the art, at the time of the 20. invention to create a mixture of an amorphous carbon composition and a metal or metalloid compound as taught in Konishi et al. to be contained within the heating element of Warhus, Jr. et al. for the purpose and advantage of producing an element with resistances larger than that of pure carbon by several times.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Meghan K. Dunwiddie whose telephone number is (571) 272-8543. The examiner can normally be reached on Monday through Friday 8 am-4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandra O'Shea can be reached on (571) 272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).